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1 Versions and workspaces in Microsoft repository
 Thomas Bergstraesser, Philip A. Bernstein, Shankar Pal, David Shutt June 1999 **ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2 Publisher: ACM Press Full text available:  pdf(281.64 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the version and workspace features of Microsoft Repository, a layer that implements fine-grained objects and relationships on top of Microsoft SQL Server. It supports branching and merging of versions, delta storage, checkout-checkin, and single-version views for version-unaware applications.

2 Version models for software configuration management
 Reidar Conradi, Bernhard Westfechtel June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2 Publisher: ACM Press Full text available:  pdf(463.54 KB) Additional Information: full citation, abstract, references, citations, index terms

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

3 Using Applications of Data Versioning in Database Application Development
 Ramkrishna Chatterjee, Gopalan Arun, Sanjay Agarwal, Ben Speckhard, Ramesh Vasudevan May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04** Publisher: IEEE Computer Society Full text available:  pdf(166.57 KB) Additional Information: full citation, abstract, citations, index terms

Database applications such as enterprise resource planning systems and customer relationship management systems are widely used software systems. Development and testing of database applications is difficult because the program execution depends on the persistent state stored in the database. In this paper we show that how versioning of the persistent data stored in the database can solve some critical problems in the development and testing of database applications can be solved by vers ...

4 An overlaying method for the effective organisation of APL systems
 A D Crossley, G R Streeter May 1979 **ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: part 1 APL '79**, Volume 9 Issue 4 Publisher: ACM Press Full text available:  pdf(821.90 KB) Additional Information: full citation, abstract, index terms

A system has been developed to manage the workspace with an application operating under its control. The system, known as PROGRAMSYSTEM, utilises a novel overlaying technique to limit workspace contents to those which are pertinent to the current processing task. Having been evolved over the past two years, it is currently managing three large operational applications in different organisations, using Sharp APL and Xerox APL. The paper briefly reviews some popular work ...

**5 Improving virtual machine performance using a cross-run profile repository**

Matthew Arnold, Adam Welc, V. T. Rajan

October 2005

ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05, Volume 40 Issue 10

Publisher: ACM Press

Full text available: [pdf\(392.47 kB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Virtual machines for languages such as the Java programming language make extensive use of online profiling and dynamic optimization to improve program performance. But despite the important role that profiling plays in achieving high performance, current virtual machines discard a program's profile data at the end of execution, wasting the opportunity to use past knowledge to improve future performance. In this paper, we present a fully automated architecture for exploiting cross-run profile da ...

Keywords: Java, profiling, selective optimization, virtual machine**6 DynaMine: finding common error patterns by mining software revision histories**

Benjamin Livshits, Thomas Zimmermann

September 2005

ACM SIGSOFT Software Engineering Notes , Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13, Volume 30 Issue 5

Publisher: ACM Press

Full text available: [pdf\(182.92 kB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

A great deal of attention has lately been given to addressing software bugs such as errors in operating system drivers or security bugs. However, there are many other lesser known errors specific to individual applications or APIs and these violations of application-specific coding rules are responsible for a multitude of errors. In this paper we propose DynaMine, a tool that analyzes source code check-ins to find highly correlated method calls as well as common bug fixes in order to automatical ...

Keywords: coding patterns, data mining, dynamic analysis, error patterns, one-line check-ins, revision histories, software bugs**7 An overview of three commercial object-oriented database management systems: ONTOS, ObjectStore, and O2**

Valery Soloviev

March 1992

ACM SIGMOD Record, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citing](#), [index terms](#)

We present an analysis of three current object-oriented DBMS products: ONTOS, ObjectStore, and O2, as described by their available documentation. The most attractive feature of ONTOS and Object-Store is their use of C++ as a user interface - a widespread object-oriented language. They also provide persistent data implementation, transaction and recovery mechanisms, and modern application development tool sets following the recommendations of [Atkinson et al. 89]. O2 was chosen for a well-de ...

**8 System support for pervasive applications**

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 4**

Publisher: ACM Press

Full text available: [pdf\(1.32 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing**9 Visualizing geospatial data**

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004

ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: [pdf\(14.01 MB\)](#)Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:
 • Rudimentary: minimal data sharing between the GIS and Vis systems
 • Operational: consistency of geospatial data
 • Functional: transparent communication between the GIS and Vis systems
 • Merged: one comprehensive toolkit environment

10 Human-computer interface development: concepts and systems for its management



H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.07 MB)

Additional Information: full citation, abstract, references, citations, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...;

11 Hypertext versioning: The molhado hypertext versioning system



Tien N. Nguyen, Ethan V. Munson, John T. Boyland

August 2004

Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04

Publisher: ACM Press

Full text available: pdf(943.38 KB)

Additional Information: full citation, abstract, references, citations, index terms

This paper describes *Molhado*, a hypertext versioning and software configuration management system that is distinguished from previous systems by its flexible product versioning and structural configuration management model. The model enables a unified versioning framework for atomic and composite software artifacts, and hypermedia structures among them in a fine-grained manner at the logical level. Hypermedia structures are managed separately from documents' contents. Molhado explicitly r ...

Keywords: hypertext versioning, software configuration management, software engineering, version control

12 Special issue: AI in engineering



D. Sriram, R. Joabbani

April 1985

ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB)

Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

13 Fragmented interaction: establishing mutual orientation in virtual environments



Jon Hindmarsh, Mike Fraser, Christian Heath, Steve Benford, Chris Greenhalgh

November 1998

Proceedings of the 1998 ACM conference on Computer supported cooperative work CSCW '98

Publisher: ACM Press

Full text available: pdf(2.26 MB)

Additional Information: full citation, references, citations, index terms

Keywords: media spaces, object-focused work, social interaction, virtual environments

14 Dealing with synchronization and timing variability in the playback of interactive session recordings



Nelson R. Manohar, Atul Prakash

January 1995

Proceedings of the third ACM international conference on Multimedia MULTIMEDIA '95

Publisher: ACM Press

Full text available: html(65.26 KB)

Additional Information: full citation, references, citations, index terms

Keywords: collaboration environments, media integration and synchronization, session capture and replay

- 15 Experiments in social data mining: The TopicShop system**
 Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman
 March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1

Publisher: ACM Press
 Full text available:  pdf(377.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citable](#), [index terms](#)

Social data mining systems enable people to share opinions and benefit from each other's experience. They do this by mining and redistributing information from computational records of social activity such as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces based on the information improve user task performance? We report here on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooperative work, information visualization, social filtering, social network analysis

- 16 Data streams: Continuous monitoring of top-k queries over sliding windows**
 Kyriakos Mouratidis, Spiridon Bakiras, Dimitris Papadias
 June 2008 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM Press
 Full text available:  pdf(578.03 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Given a dataset P and a preference function f , a top- k query retrieves the k tuples in P with the highest scores according to f . Even though the problem is well-studied in conventional databases, the existing methods are inapplicable to highly dynamic environments involving numerous long-running queries. This paper studies continuous monitoring of top- k queries over a fixed-size window W of the most recent data. The window size can be expressed either in ...

Keywords: continuous queries, sliding windows, top- k processing

- 17 Document Databases: The extended XQL for querying and updating large XML databases**
 Raymond K. Wong
 November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering DocEng '01**

Publisher: ACM Press
 Full text available:  pdf(117.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citable](#), [index terms](#)

XQL has been argued as just a model for asking for specific sets of elements with very limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, session-based navigations, and updates. Effort has been spent to preserve the conciseness of the language syntax. Its corresponding query processor with optimization mechanism has been prototyped and available online. Finally, implementation issu ...

- 18 Approximate spatio-temporal retrieval**
 Dimitris Papadias, Nikos Mamoulis, Vasilis Delis
 January 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 1

Publisher: ACM Press
 Full text available:  pdf(161.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citable](#), [index terms](#)

This paper proposes a framework for the handling of spatio-temporal queries with inexact matches, using the concept of relation similarity. We initially describe a binary string encoding for 1D relations that permits the automatic derivation of similarity measures. We then extend this model to various granularity levels and many dimensions, and show that reasoning on spatio-temporal structure is significantly facilitated in the new framework. Finally, we provide algorithms and optimization ...

- 19 Accumulative versioning file system Moraine and its application to metrics environment MAME**
 Tetsuo Yamamoto, Makoto Matsushita, Katsuro Inoue
 November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8**, Volume 25 Issue 6

Publisher: ACM Press
 Full text available:  pdf(796.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citable](#), [index terms](#)

It is essential to manage versions of software products created during software development. There are various versioning tools actually used in these days, although most of them require the developers to issue management commands for consistent versioning. In this paper, we present a novel versioning file system Moraine, which accumulatively and automatically collects all files created or modified. Those files are versioned and stored as compressed forms. The older versions are easily retrie ...

- 20 Automated SQL documentation using APL2**
 Rexford H. Swain



July 1991

ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91, Volume 21 Issue 4

Publisher: ACM Press

Full text available: [pdf\(785.07 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An application programmer working with APL2 and SQL/DS will often want to investigate and/or document the definitions of SQL tables and views, particularly when working with tables created by others. Unlike conventional APL file systems, SQL "knows" quite a bit about the objects it is storing, but this information is scattered throughout several system catalogs. An APL2 tool which combines and neatly formats available information about a table is presented. Interpretation of this information may ...

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21 Scientific data management in the coming decade

Jim Gray, David T. Liu, Maria Nieto-Santisteban, Alex Szalay, David J. DeWitt, Gerd Heber

December 2005 ACM SIGMOD Record, Volume 34 Issue 4

Publisher: ACM Press

Full text available: PDF (150.14 KB)

Additional Information: full citation, abstract, index terms

Scientific instruments and computer simulations are creating vast data stores that require new scientific methods to analyze and organize the data. Data volumes are approximately doubling each year. Since these new instruments have extraordinary precision, the data quality is also rapidly improving. Analyzing this data to find the subtle effects missed by previous studies requires algorithms that can simultaneously deal with huge datasets and that can find very subtle effects --- finding both ne ...

22 TAE Plus: Transportable Applications Environment Plus: a user interface development environment

Martha R. Szczur, Sylvia B. Sheppard

January 1993 ACM Transactions on Information Systems (TOIS), Volume 11 Issue 1

Publisher: ACM Press

Full text available: PDF (1.69 MB)

Additional Information: full citation, references, citations, index terms

The Transportable Applications Environment Plus (TAE Plus) is a NASA-developed user interface development environment (UIDE) for the rapid prototyping, evaluation, implementation, and management of user interfaces. TAE Plus provides an intuitive What You See Is What You Get (WYSIWYG) WorkBench for designing an application's user interface. The WorkBench supports the creation and sequencing of displays, including real-time, data-driven display objects. Users can define context-sensitive help ...

Keywords: graphical user interfaces, prototyping, user interface development tools

23 Using an integrated toolset for program understanding

Michael Whitney, Morris Bernstein, Renato De Mori, Kostas Kontogiannis, Brian Corrie, Hausi Müller, Scott Tilley, Ettore Merlo, John Mylopoulos, Kenny Wong, J. Howard Johnson, James McDaniel, Martin Stanley

November 1995 Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research CASCON '95

Publisher: IBM Press

Full text available: PDF (577.86 KB)

Additional Information: full citation, abstract, references, citations, index terms

This paper demonstrates the use of an integrated toolset for program understanding. By leveraging the unique capabilities of individual tools, and exploiting their power in combination, the resultant toolset is able to facilitate specific reverse engineering tasks that would otherwise be difficult or impossible. This is illustrated by applying the integrated toolset to several typical reverse engineering scenarios, including code localization, data flow analysis, pattern matching, system cluster ...

24 Visualization frameworks and empirical evaluation: On the use of visualization to support awareness of human activities in software development: a survey and a framework

Margaret-Anne D. Storey, Davor Ćubranić, Daniel M. German

May 2005 Proceedings of the 2005 ACM symposium on Software visualization SoftVis '05

Publisher: ACM Press

Full text available: PDF (789.15 KB)

Additional Information: full citation, abstract, references, citations, index terms

This paper proposes a framework for describing, comparing and understanding visualization tools

that provide awareness of human activities in software development. The framework has several purposes -- it can act as a *formative evaluation* mechanism for tool designers; as an assessment tool for potential *tool users*; and as a *comparison tool* so that tool researchers can compare and understand the differences between various tools and identify potential new research areas.

Keywords: awareness, computer supported collaborative work, software development, visualization

25 Motion recovery for video content classification



Nevenka Dimitrova, Forouzan Golshani

October 1995

ACM Transactions on Information Systems (TOIS), Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(1.74 MB)

Additional information: [full citation](#), [abstract](#), [references](#), [changes](#), [index terms](#)

Like other types of digital information, video sequences must be classified based on the semantics of their contents. A more-precise and completer extraction of semantic information will result in a more-effective classification. The most-discriminable difference between still images and moving pictures stems from movements and variations. Thus, to go from the realm of still-image repositories to video databases, we must be able to deal with motion. Particularly, we need the ability to classi ...

Keywords: MPEG compressed video analysis, content-based retrieval of video, motion recovery, video databases, video retrieval

26 Consistency management for distributed collaboration



Jonathan Rees, Sarah Ferguson, Sankar Virdhagriswaran

June 1999

ACM Computing Surveys (CSUR)

Publisher: ACM Press

Full text available: pdf(31.03 KB)

Additional information: [full citation](#), [references](#), [index terms](#)

27 An Introduction to Rlab

Ian Searle

June 1998

Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(24.39 KB)

Additional information: [full citation](#), [abstract](#), [index terms](#)

A computational tool for scientific and engineering applications

28 Interaction: Adaptive interaction in Web3D virtual worlds



Augusto Celentano, Michele Nodari, Fabio Pittarello

April 2004

Proceedings of the ninth international conference on 3D Web technology Web3D

'04

Publisher: ACM Press

Full text available: pdf(395.75 KB)

Additional information: [full citation](#), [abstract](#), [references](#), [changes](#)

In recent years a number of techniques have been studied for augmenting the ease of use of 3D worlds: methodologies for adapting both navigation and content allow a user to interact with a customized 3D world; adaptable navigation paradigms offer parallel modalities for different classes of users. In both cases the goal is to reduce the cognitive load needed for interaction. This work focuses on interaction adaptivity, trying to anticipate the user behaviors by monitoring their interaction patter ...

Keywords: 3D worlds, VRML, adaptivity, agents, interaction

29 Automating envisionment of virtual meeting room histories



Allen Ginsberg, Sid Ahuja

January 1995

Proceedings of the third ACM international conference on Multimedia MULTIMEDIA

'95

Publisher: ACM Press

Full text available: html(47.54 KB)

Additional information: [full citation](#), [abstract](#), [references](#), [changes](#), [index terms](#)

This paper addresses the problem of how to automatically generate visual representations of recorded histories of distributed multimedia collaborations. The work reported here focuses mainly on what we consider to be an innovative approach to this problem, viz., the use of a temporal representation format that displays the generic meta-information associated with multimedia content in a way that lets users focus on and access the associated content of interest. As a concrete example of the ...

30 Spatial hypertext: Integrating information seeking and structuring: exploring the role of spatial hypertext in a digital library

George Buchanan, Ann Blandford, Harold Thimbleby, Matt Jones



August 2004

**Proceedings of the fifteenth ACM conference on Hypertext and hypermedia
HYPERTEXT '04**

Publisher: ACM Press

Full text available: [pdf\(257.72 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

This paper presents Garnet, a novel spatial hypertext interface to a digital library. Garnet supports both information structuring - via spatial hypertext - and traditional information seeking - via a digital library. A user study of Garnet is reported, together with an analysis of how the organizing work done by users in a spatial hypertext workspace could support later information seeking. The use of Garnet during the study is related to both digital library and spatial hypertext research. Spa ...

Keywords: digital libraries, information retrieval, spatial hypertext

³¹**Immersion in the world: 3-D live: real time interaction for mixed reality**

Simon Prince, Adrian David Cheok, Farzam Farbiz, Todd Williamson, Nik Johnson, Mark Billinghurst, Hirokazu Kato

November 2002

**Proceedings of the 2002 ACM conference on Computer supported cooperative work
CSCW '02**

Publisher: ACM Press

Full text available: [pdf\(2.58 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

We describe a real-time 3-D augmented reality video- conferencing system. With this technology, an observer sees the real world from his viewpoint, but modified so that the image of a remote collaborator is rendered into the scene. We register the image of the collaborator with the world by estimating the 3-D transformation between the camera and a fiducial marker. We describe a novel shape- from-silhouette algorithm, which generates the appropriate view of the collaborator and the associated de ...

Keywords: augmented reality, image based rendering, interaction, shape from silhouette, video-conferencing

³²**Dynamic digital libraries for children**

January 2001

Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01

Publisher: ACM Press

Full text available: [pdf\(1.11 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

The majority of current digital libraries (DLs) are not designed for children. For DLs to be popular with children, they need to be fun, easy-to-use and empower them, whether as readers or authors. This paper describes a new childrens DL emphasizing its design and evaluation, working with the children (11-14 year olds) as design partners and testers. A truly participatory process was used, and observational study was used as a means of refinement to the initial design of the DL prototype. I ...

Keywords: collaborative writing, design partners and testers, design process, ethnography, observational study, participatory design

³³**Constructing, organizing, and visualizing collections of topically related Web resources**

Loren Terveen, Will Hill, Brian Amento

March 1999

ACM Transactions on Computer-Human Interaction (TOCHI), Volume 6 Issue 1

Publisher: ACM Press

Full text available: [pdf\(303.62 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site

Keywords: cocitation analysis, collaborative filtering, computer supported cooperative work, information visualization, social filtering, social network analysis

³⁴**Finding and visualizing inter-site clan graphs**

Loren Terveen, Will Hill

January 1998

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '98

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: [pdf\(1.16 MB\)](#)Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

Keywords: co-citation analysis, collaborative filtering, computer supported cooperative work,

human-computer interaction, information access, information retrieval, information visualization, social filtering, social network analysis

³⁵ [The gist of GIUKU: graphical interactive intelligent utilities for knowledgeable users of data base systems](#)



systems

Michel Kuntz

March 1992

ACM SIGMOD Record, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(525.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Synoptic description of GIUKU: its rationale, its main functionalities, its novel features, a comparison to related work, and a discussion of its current status — a fully implemented prototype available for use.

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